



## CYLINDRICAL BODY

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### Abstract

**PURPOSE:** To supply fibers with less unevenness and mix them with a resin liquid to uniformize the mixture, by making supplied fibers containing styrene to a cylindrical body and supplying it at an appropriate distance over the width of the apparatus.

**CONSTITUTION:** A cylindrical body for sheet molding compound whose apparent specific gravity is 0.1-3.0 is prepared by fixing fibers whose filament thickness is 0.1-1,000 denier and filament length is 0.1-50mm with 0.1-40wt% of styrene soluble resin as a binder. The fibers are one or a combination of more than two of natural, semisynthetic, synthetic, carbon, metal fibers and whiskers and styrene soluble resins used as the binder are styrene-containing latex, polystyrene resin and vinyl chloride/vinyl acetate copolymer. The cylindrical body thus prepared can be easily separated into small agglomerates of fibers by only supplying them into a chopper for glass robing. The fibers in the agglomerates are then uniformly dispersed because the resin fixing fibers become soluble in styrene in SMC to improve greatly the characteristics of SMC.

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